Ziegler Chemical & Mineral Corp. P.O. Box 455 Great Neck, N.Y. 11021

February 7, 1979

Mr. Michael Thompson Reclamation Hydrologist State of Utah, Div. of Oil, Gas & Mining 1588 West North Temple Salt Lake City, Utah 84116

Dear Sir:

Enclosed please find the Mining Plans for Ziegler Chemical & Mineral Corp. on the I-4, E-5 and 8-A Gilsonite Mines.

Please advise me if there is any other information required. Thank you for your time and consideration in this matter.

Very truly yours,

Ziegler Chemical & Mineral Corp.

BY:

Robert E. Covington, Consultant

REC:mc

Encls.

cc: Mr. Gordon Ziegler, Jr. Frank Godina, Bonanza, Utah



MINING PLAN FOR

ZIEGLER CHEMICAL & MINERAL CORP.

GILSONITE MINE E-5

ON THE LITTLE EMMA VEIN

PATENTED LANDS,

SECTION 32, T9S-R24E

UINTAH COUNTY, UTAH

BY

ROBERT E. COVINGTON

CERTIFIED PROFESSIONAL GEOLOGIST NO. 1705

and

PAUL RANDOLPH and JEFF WINGERTER

		-	
MR	FU	DM	ı,
1 11/		mm	- 44

Page 1 of 1

FILE	NO.	

DATE: February 7., 1978

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1588 WEST NORTH TEMPLE
SALT LAKE CITY, UTAH 84116

DECLARATION OF EXEMPTION

(See Mined Land Reciamation Act 40-8-4(6))

As provided for in Section 40-8-4 UCA 1953, I hereby declare an exemption from the "Utah Mined Land Reclamation Act", in that less than 500 tons of material is being mined or less than two (2) acres of land is being excavated or used as a disposal site during a period of twelve (12) consecutive months, from the following designated claims, leases, or fee acreage.

NAME OF CLAIM, LEASE, OR FEE ACREAGE Patented Land	±,± SECTION	TOWNSH P	RANGE	COUNTY
Tatelited Land	NEŻNWŻ			
E-5 on Little Emma Vein	Sec. 32	. 9S	24E	Uintah
	1			

Commodity:	GILSONITE
Date:	February 7, 1979 Signature: Keberte Commeton
OPERATOR:	Robert E. Covington, Consultant
ADDRESS:_	P.O. Box 455, Great Neck, New York, 11021
TELEPHONE:	(516) 482–8600

*This form needs to be filed one time only. In the event more than the minimum size requirements are mined, a Notice of Intention to Commence Mining Operations (MR Form 1) and a Mining and Reclamation Plan (MR Form 2) will need to be filed with this office.

MR	FO	RM	1	2	
Pag	e	1	0	f	3

MINING NO.	APPLICATION
Date	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING 1588 West North Temple Salt Lake City, Utah 84116

E-5 Gilsonite Mine on the Little Emma Vein (Patented Land) NE NWZ, Sec. 32, T9S-R24E, SLM, Uintah Co.,

MINING AND RECLAMATION PLAN
(Other forms may be used in lieu of MR 2, provided they contain the same information)

1.	Name of Applicant or Company Ziegler Chemical & Mineral Corp.
2.	Proposed type of operation underground mine
3.	(a) Prior Land Use(s)
	(b) Current Land Use(s)
	(c) Possible or Prospective Future Land Use(s) none
4.	What vegetation exists on the land proposed to be affected sagebush
	(a) Types and Estimated Percent cover or density:sparce
5.	What is the range pH of soil before mining? N/A pH Name of Person or Agency and method of determining pH
6.	경기 기계 경기 전에 되었다. 그는 그는 그리고 있다면 하는 것이 되었다. 그는 그는 그는 그는 그는 그는 그는 그는 그는 그를 보고 있다. 그는 그를 보고 있다고 있다면 보고 있다. 그는 그를 보고 그런 것이 되는 것이 그는 그를 보고 있다. 그는 그는 그는 그를 보고 있는 것이 되었다. 그는 그를 보고 있는 것이 되었다. 그를 보고 있다면 되었다. 그를 보고 있다. 그를 보고 있다. 그를 보고
7.	In case of coal, oil shale, and bituminous sandstone: Principal seam(s) and thickness(es) N/A
8.	Estimated duration of mining operations 10 years
9.	Has overburden, waste or rejected materials been classified as acid or alkali producing? (X) Yes () No Does the above material being moved have any other characteristics affecting revegetation? No
10.	Will any underground workings or aquifers be encountered? () Yes (\times) No Describe
	Is there an active discharge of water from abandoned deep mines on or crossing the land affected? () Yes (X) No If yes, describe the quality of water being discharged.

11	. Describe specifically a det	ailed procedure for: See attached Mining Plan
	(a) The mining sequence(b) The procedure for cons	tructing and maintaining access roads, to s-section and a profile of the proposed
	(c) The procedure for site brush.	preparation including removing trees and
	to include the method and toxic material.	g and stockpiling topsoil or disturbed materials. cement or containment of all disturbed materials, for handling of all acid or alkali-producing stabilization of disturbed materials.
		GRADING AND REGRADING
Spe	ecifically describe: See attack	
	regraded area and indic surfacing material. (c) What type of soil treat	g topsoil or upper horizon material on the cate the approximate thickness of the final
		TESTING
1.		stability of reclamation fill material. See attached p.2
		ng of soil that is intended to support See attached p.2
2.	Describe any soil treatment e	employed as an aid to revegetation
		See attached p. 2
3.		of areas intended to support vegetation: See attached p.2
		REVEGETATION
1.	Revegetation to be completed (X) Operator () Soil Conservation Distr () Private Contractor Name () Other (specify)	() Hydroseeding
2.	Will Mulch be used? Type	Rate/Acre Ves (U. 6. U rec.) 1bs

3. Revegetation Plan and Schedule - Will be based on Utah State University
Soil Testing Laboratories recommendation.

Species	Rate/ Acre	Planting Location	Facing N-S-E-W	Season to be replanted
SEE	ABOVE	NOTE		

(×) No	Will vegetation protection be needed? NO
Will irrigat	tion be used? () Yes (X) No Type
Describe mai release is g	intenance procedures for revegetation if needed, until surety granted. Monthly field inspection

MR FORM 2 Page 2 of 3 Contd.

- 11 (a) See attached mining plan.
 - (b) Procedure for constructing and maintaining access roads:

Haulage roads have already been constructed and are being maintained by the operator.

(c) Procedure for site preparation:

There are no trees on the site. Sagebrush has been removed. A dozer was used to level an area of 20 square feet for the tipple over the vein and an area of 800 square feet for the hoist house.

(d) Method for removing topsoil:

Topsoil was removed by dozer and stockpiled away from the working area.

(e) Disturbed topsoil:

All disturbed topsoil will be replaced after mining operations are completed by replacement onto disturbed site. Topsoil will be machine packed.

(f) Stabilization:

Final stabilization of disturbed materials will be made by grading and reseeding, (see below).

GRADING AND REGRADING:

- (a) Cross-section will conform to present topography with approximately 1 foot of topsoil over it and blended in with the undisturbed surroundings.
- (b) Method of spreading topsoil:

A bulldozer will be used to spread the stockpiled topsoil. The approximate thickness of the topsoil will be 1 foot. The original contours will be restored as nearly as possible.

(c) What type of soil treatment will be provided:

Prior to commencement of regrading, soil tests will be run on the topsoil by Utah State University Testing Station to determine pH, fertility rate, etc. The plan is to follow U.S.U.'s recommendations with reference to treatment.

(d) Method of drainage control for entire area:

Natural drainage will be re-established by hand ditching or dozing.

(e) Maximum grading slope will be 2% or less.

TESTING:

1. Describe Method of Testing Stability of Reclamation of Fill Material:

Yardage of topsoil to be removed prior to mining operation is calculated as follows:

Change house, showers and living quarters are provided at the operator's office area located in the $SE\frac{1}{4}NE\frac{1}{4}$ of Section 16, T9S-R24E, Uintah County, Utah.

(a) Mining Area:

1 acre = 1613 cu. yards

(b) Haulage Roads:

1 acre = 1613 cu. yards

Topsoil will be replaced with dozer and compacted.

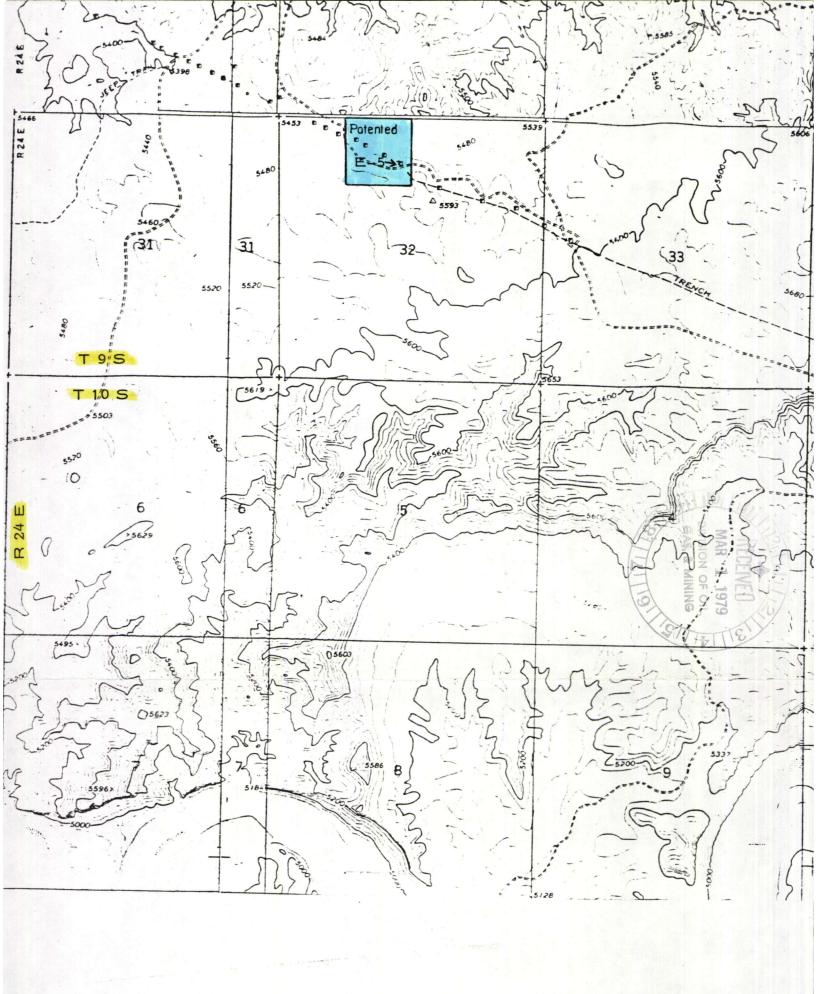
2. Describe any soil treatment to be employed:

Recommendations of soil tests run by U.S.U. will be followed.

3. Describe surface preparation:

Area will be re-graded and mulched. Seed bed preparation will consist of utilizing U.S.U.'s recommendation on seeding. Fertilizers will be applied if necessary to obtain proper soil conditions.

CULTURAL FACTORS 1 2. Aesthetic & Fluman Land Interest 1 2	1 -1-10	Jint C Ver Jan	
Status Interest Land Use	2.	EFF	-5 Ch
a. qu	ージュラムー	, T10 ah Co Utah By E. Co PG # nal, uary	ATR for Gil emica
Ope	gro	Utah 25, 1979	sonite Mi al & Mine
es	orm r- ound		ne, ral Co
		Alteration of Ground Water Hydrology	1
			A. Modifi
			cation
1/1/1	1	a. Industrial Sites & Buildings	T
1/1	1/1	b. Roads & Trails	3. rat
	1/1	c. Tipple & belt conveyors	La
	,	۵.	ONMEN
	1/1	a. Blasting & drilling	T
	<i>Y</i> 1	b. Surface excavátion	P
	1	c. Well drilling & fluid removal	les
	刈 	d. Subsurface Excavation	our ecti
			ce
	<i>Y</i>	a. Mine sealing & waste control	A
			D. and Iter-
	7	a. Automobile	Ci



ZIEGLER CHEMICAL & MINERAL CORP.
PATENTED "LITTLE EMMA" MINE IN
SEC. 32, T.95., R.24 E.

Uintah County, Utah Robert E. Covington, C.P.G. 1705 Scale: 1"= 2000' Feb., 1979

Contour Interval: 40'



Patented